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NOTICE OF ALLOWANCE AND FEE(S) DUE

75741 7590 12/09/2008

Hope Baldauff Hartman, LLC 1720 Peachtree Street, N.W. Suite 1010 Atlanta, GA 30309

NGUYEN, TU X

PAPER NUMBER

2618 DATE MAILED: 12/09/2008

ART UNIT

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767,000	01/28/2004	Douglas T. Bell	60055.0020USU1/03-0088A	5013

TITLE OF INVENTION: SYSTEMS AND METHODS FOR DIGITAL PROCESSING OF SATELLITE COMMUNICATIONS DATA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$O	\$1810	03/09/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:	If the SMALL ENTITY is shown as NO:
A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.	A. Pay TOTAL FEE(S) DUE shown above, or
B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or	B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: <u>Mail</u> Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 or <u>Fax</u> (571)-273-2885

appropriate. All further	correspondence includin ed below or directed oth	ig the Patent, a	dvance o	rders and notification o	of ma	aintenance fees wi	ill be n	nailed to the current	ould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
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1720 Peachtree Suite 1010				I S ac tr	here tates ddre cansr	by certify that this Service w	s Fee(s)	of Mailing or Transr) Transmittal is being icient postage for firs SSUE FEE address) 273-2885, on the da	nission deposited with the United t class mail in an envelope above, or being facsimile ite indicated below.
Atlanta, GA 303	09			Ļ					(Depositor's name)
				-					(Signature)
				L					(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTO	VENTOR ATTORNEY D			NEY DOCKET NO.	CONFIRMATION NO.
10/767,000 TITLE OF INVENTION	10/767,00001/28/2004Douglas T. Bell60055.0020USU1/03-0088A5013TITLE OF INVENTION: SYSTEMS AND METHODS FOR DIGITAL PROCESSING OF SATELLITE COMMUNICATIONS DATA								
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	DUE	PUBLICATION FEE DU	Έ	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510		\$300		\$0		\$1810	03/09/2009
EXAM	IINER	ART UN	IT	CLASS-SUBCLASS					
NGUYE	N, TU X	2618		455-012100	_				
CFR 1.363). (1) the names of up to 3 registered patent attorneys 1									
Please check the appropr	riate assignee category or	categories (will	not be p	rinted on the patent) :		Individual 🖵 Con	rporatio	on or other private gro	up entity 🔲 Government
 4a. The following fee(s) are submitted: 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit ar overpayment, to Deposit Account Number (enclose an extra copy of this is a transport of the start of					iciency, or credit any				
5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).									
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not b tes Patent and T	e accepte 'rademarl	ed from anyone other that COffice.	n the	e applicant; a regis	stered a	ttorney or agent; or the	e assignee or other party in
Authorized Signature						Date			
Typed or printed name Registration No									
This collection of inform an application. Confiden submitting the complete- this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	/irginia 22313-1450. DC	EFR 1.311. The i U.S.C. 122 and USPTO. Time rden, should be NOT SEND F	informati 37 CFR will vary sent to th EES OR	on is required to obtain on 1.14. This collection is depending upon the independing upon the find completed FORMS	or re estir divid ficer TO	tain a benefit by th nated to take 12 n dual case. Any cor , U.S. Patent and 7 THIS ADDRESS.	ne publi ninutes mments Fradem . SEND	c which is to file (and to complete, including on the amount of tin ark Office, U.S. Depa 9 TO: Commissioner f	by the USPTO to process) g gathering, preparing, and he you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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	ited States Patei	NT AND TRADEMARK OFFICE	UNITED STATES DEPAR United States Patent and ' Address: COMMISSIONER F P.O. Box 1450 Alexandria, Virginia 223 www.uspto.gov	Trademark Office OR PATENTS		
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1720 Peachtree Str	eet, N.W.		ART UNIT	PAPER NUMBER		
Suite 1010 Atlanta, GA 30309			2618 DATE MAILED: 12/09/200	8		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 905 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 905 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)						
		BELL ET AL.						
Notice of Allowability	10/767,000 Examiner	Art Unit						
	TU X. NGUYEN	2618						
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not include will be mailed in due o	ed course. THIS					
1. 🔀 This communication is responsive to <u>11/17/08</u> .								
2. ⊠ The allowed claim(s) is/are <u>1,3-6 and 8-30</u> .								
 3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 								
 Certified copies of the priority documents have Certified copies of the priority documents have 								
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage applicat	ion from the					
International Bureau (PCT Rule 17.2(a)).								
* Certified copies not received:								
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE .								
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.							
(a) 🔲 including changes required by the Notice of Draftspers		-948) attached						
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date								
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the C	Office action of						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of					
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.								
Attachment(s) 1.	5. 🗌 Notice of Informal F	Patent Application						
2. I Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Summary	6. 🔲 Interview Summary (PTO-413),						
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7. ⊠ Examiner's Amendi	te ment/Comment						
Paper No./Mail Date 4.	8. 🛛 Examiner's Stateme	ent of Reasons for Allo	wance					
of Biological Material	9. 🔲 Other	9. 🔲 Other						

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Steven Koon Hon Wong on 11/19/08.

In claim 3, line 1, delete the phrase ""payload of claim 2" has been replaced with --- payload of claim 1---

In claim 4, line 1, delete the phrase ""payload of claim 2" has been replaced with --- payload of claim 1---

In claim 5, line 1, delete the phrase ""payload of claim 2" has been replaced with --- payload of claim 1---

In claim 6, line 1, delete the phrase ""payload of claim 2" has been replaced with --- payload of claim 1---

Allowable Subject Matter

Claims 1, 3-6 and 8-30, are allowed.

The following is an examiner's statement of reasons for allowance:

Application/Control Number: 10/767,000 Art Unit: 2618

Regarding claim 1, the prior art fails to teach "the digital regeneration module is further configured to digitally process the bitstream by performing cryptographic manipulation of the bitstream", as cited in the claim.

Regarding claim 14, the prior art fails to teach "wherein the embeddable regeneration module is further configured to digitally process the bitstream by performing cryptographic manipulation of the bitstream", as cited in the claim.

Regarding claims 15, 20 and 29, the prior art fails to teach "demodulating at least a portion of the plurality of frequency slices to extract a digital bitstream therefrom; digitally processing the bitstream by performing cryptographic manipulation of the bitstream; remodulating the bitstream after processing", as cited in the claim.

Regarding claim 27, the prior art fails to teach "a backplane housing having a backplane bus; and a plurality of processing cards, each processing card comprising: a channelizer circuit configured to receive the sub-band spectrum and to divide the sub-band spectrum into a plurality of frequency slices", as cited in the claim.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed Tu Nguyen whose telephone number is 571-272-7883.

Application/Control Number: 10/767,000 Art Unit: 2618

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Tu X Nguyen/ Examiner, Art Unit 2618 11/19/08